

**Homework Assignment No. 10**

Due on Wednesday, March 31, 2004

1.) Problem P7.6 (a) and (c) of the text.

2.) Problem P7.7 of the text.

[Ans. (a)  $LE = 2/3$  (b)  $LE_A=1$ ,  $LE_B=3$ , and  $LE_C=1$

3.) Problem P7.10 of the text.

[Ans: Shortest path is 47.4ps and the longest path is 112.5ps]

4.) Problem P7.13 of the text.

[Ans: (a) Worst case charge sharing occurs when  $a = c = e = 1$  and both  $b = d = 0$ .  
(b)  $V^* = 1.34V$  and (c) Circuit is okay]